

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-25. (previously canceled)

1 26. (currently amended) A method of manufacturing an all fiber wavelength-dependent
2 optical intensity filter, which begins with an optical fiber having a core, cylindrically-
3 symmetrical inner cladding, and outer cladding, comprising:

- 4 a. holding the optical fiber between a first clamp and a second clamp;
5 b. heating a length of the optical fiber between the first clamp and the second clamp;
6 and
7 c. stretching the optical fiber by further separating the first clamp and the second
8 clamp until a predetermined characteristic is achieved.

1 27. (original) The method as claimed in claim 26 wherein the predetermined characteristic is a
2 stretch length of the optical fiber.

1 28. (original) The method as claimed in claim 27 wherein the step of heating includes heating
2 the length of optical fiber to a temperature within the range of 900 °C to 1100 °C.

1 29. (original) The method as claimed in claim 28 wherein the step of stretching is completed by
2 using a first stepper motor that controls the movement of the first clamp and a second stepper
3 motor that controls the movement of the second clamp.

1 30. (original) The method of claim 26 wherein the predetermined characteristic is an optical
2 spectrum response of the optical fiber.

1 31. (original) The method as claimed in claim 30 wherein the optical spectrum response is
2 measured using a white light source and an optical spectrum analyzer.

1 32. (original) The method as claimed in claim 31 wherein the predetermined optical spectrum
2 response is based upon an inverse of a portion of an amplifier gain spectrum such that upon

3 cooling of the all fiber optical filter, the optical spectrum response will be nearly equal to the
4 inverse of the portion of the amplifier gain spectrum.

1 33. (original) The method as claimed in claim 32 wherein the temperature is within the range
2 between and including 900 °C to 1100 °C.